



**Technical Information**  
**multiCom pro**  
**Custom-Programming procedure**

**multiCOM pro** has many features and function that can be customised for special applications. Customisation is only possible by programming unit with Standard PC serial port. This is done by using programming cable (not supplied) and the programming software (DOS, works also with Win 95/98).

**Programming mode**

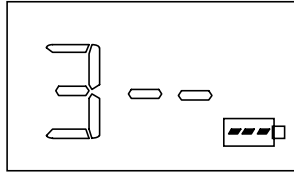
To activate Programming mode

- Connect the programming cable to Computer COM 1 or COM 2 interface sockets
- Install and run the programming software (supplied on diskette)
- Turn Radio Off
- Push and hold MON switch.
- Turn the radio on ("Prg" will be illuminated in display)
- Connect programming cable to mic input of radio
- Unit is ready for programming

Each of the eight channels in **multiCOM pro** can be programmed with following six modes of operation.

### **Free Channel**

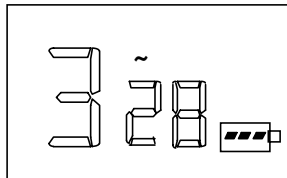
Channels can be programmed without any tone code setting



Example: Channel 3 is selected ( without any code)

### **Fixed Single Tone Setting**

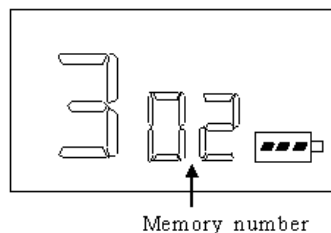
Each of 8 channels can be programmed to have one of CTCSS( 38) or DCS (83) code fixed. The user will not be able to change this code by keypad



Example: Channel 3 with CTCSS tone Code 28 selected

### **Memory Operation**

Each of 8 channels can be programmed to have upto 5 memory settings of different combination of CTCSS and DCS codes



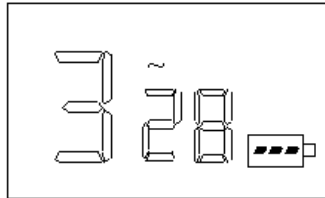
Typical setting could be

- Memory1: CTCSS - 67Hz
- Memory2: DCS - 023
- Memory3: without tone
- Memory4: CTCSS - 250.3Hz
- Memory5: CTCSS - 67.0Hz

In memory mode the “▼” flag will be blinking.

### **CTCSS tones only**

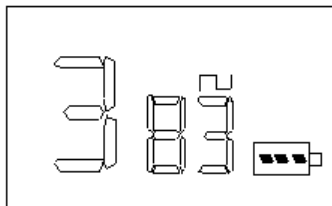
Each of 8 channels can be programmed so that user can only select one of 38 CTCSS tones.



Channel 3 with CTCSS tone Code 28 selected

### **DCS tones only**

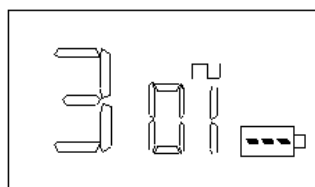
Each of 8 channels can be programmed so that user can only select one of 83 DCS tones.



Channel 3 with DCS tone Code 83 selected

### **CTCSS (38) and DCS (83) – [default setting for all the channels]**

Each of 8 channels can be programmed such that user can select one of CTCSS (38) or DCS (83) code.  
Total of 121 combinations per channel.



Channel 3 with DCS tone Code 01 selected

### **To Select Tone codes**

- Select the channel first
- Push [s] key to change the mode, channel selection or code selection  
(Flag ▼ in the display should be above the tone code digits)
- Press up[▲] or down[▼] key to select desired code

### **Transmitter Time Out Timer (TOT) Programming**

The default values of Transmitter time out (TOT) and Voice operated switching (VOX) values can be changed also by computer programming. Follow the instructions of the software on the screen.

### **Cloning:**

Once the radio is programmed its parameters can be transferred to another radio by using special programming cable (not supplied). With this cable the complete settings of one radio can be transferred (copied) to another radio without any need of a computer, only cable is required

## Tone Code Tables

### DCS-Codes

Number	DCS-Code	Number	DCS-Code	Number	DCS-Code
01	023	29	174	57	445
02	025	30	205	58	464
03	026	31	223	59	465
04	031	32	226	60	466
05	032	33	243	61	503
06	043	34	244	62	506
07	047	35	245	63	516
08	051	36	251	64	532
09	054	37	261	65	546
10	065	38	263	66	565
11	071	39	265	67	606
12	072	40	271	68	612
13	073	41	306	69	624
14	074	42	311	70	627
15	114	43	315	71	631
16	115	44	331	72	632
17	116	45	343	73	654
18	125	46	346	74	662
19	131	47	351	75	664
20	132	48	364	76	703
21	134	49	365	77	712
22	143	50	371	78	723
23	152	51	411	79	731
24	155	52	412	80	732
25	156	53	413	81	734
26	162	54	423	82	743
27	165	55	431	83	754
28	172	56	432		

## **CTCSS-Tones**

Number	Frequency (Hz)	Number	Frequency (Hz)	Number	Frequency
00	kein Ton	13	103.5	26	162.5
01	67.0	14	107.2	27	167.9
02	71.9	15	110.9	28	173.8
03	74.4	16	114.8	29	179.9
04	77.0	17	118.8	30	186.2
05	79.7	18	123.0	31	192.8
06	82.5	19	127.3	32	203.5
07	85.4	20	131.8	33	210.7
08	88.5	21	136.5	34	218.1
09	91.5	22	141.3	35	225.7
10	94.8	23	146.2	36	233.6
11	97.4	24	151.4	37	241.8
12	100.0	25	156.7	38	250.3

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